

AMENDMENTS TO THE CLAIMS

Please amend the claims of the present application as set forth below. In accordance with the PTO's revised amendment format, a detailed listing of all claims has been provided. A status identifier is provided for each claim in parentheses following each claim number. Changes to the claims are shown by strikethrough (for deleted text) or underlining (for added text).

In the Claims

Claims 1, 3-4, and 20-22 were pending before this Response.

Claims 1, 3-4, and 20-22 are amended.

New claims 30-42 are added.

No claims are cancelled by this Response.

Claims 1, 3-4, 20-22, and 30-42 are now pending.

Listing of the Claims

1. (Currently Amended) A computer system comprising:
~~at least one communication port associated with an infrared~~
transceiver;

a port detector to create a list of ~~existing~~ virtual port names of
existing available communication ports in the computer system[[:]] and to
determine whether each communication port is either available for use or
busy;

a system registry that contains configuration parameters of the
computer system;

a port renaming module to:

check the system registry to identify one or more
communication ports associated with one or more infrared transceivers;

rename each communication port associated with an infrared
transceiver from a corresponding virtual port name to a different virtual
port name;

display the list of virtual port names updated with the
different virtual port names; and

display a status indicator associated with each different
virtual port name indicating whether the corresponding communication port
is available for use or busy.

~~examine each of the names on the list and~~

~~create a descriptive name for each communication port associated with an infrared transceiver, wherein the descriptive name distinguishes the communication port associated with an infrared transceiver from the existing virtual port names on the list; and~~

~~a display to present the list of names to a user, wherein a descriptive name is used on the list.~~

Claim 2 (Cancelled)

3. (Currently Amended) The [[A]] computer system of claim 1, wherein the port detector cycles through the communication ports and attempts to open the communication ports, the port detector using results from the attempts to determine whether each ~~the~~ communication ports exists and whether each communication port is ~~are~~ available for use or busy.

4. (Currently amended) The [[A]] computer system of claim 1, wherein the port detector checks a software driver associated with an infrared transceiver to identify a communication port associated with the infrared transceiver.

Claims 5-19 (Cancelled).

20. (Currently Amended) A set-top-box-implemented method, comprising:

detecting available communication ports, the communication ports having corresponding virtual port names;

checking a system registry to identifying at least one of the communication ports as being used in communication with an infrared device; and

renaming each the one communication port in communication with an infrared device from its corresponding virtual port name to a different virtual port name to distinguish the ~~one~~ communication port from the other available communication ports;

displaying a list of the virtual port names updated with the different virtual port names; and

displaying a status indicator associated with each different virtual port name indicating whether the corresponding communication port is available for use or busy.

21. (Currently Amended) The ~~[[A]]~~ set-top-box-implemented method of claim 20, wherein the detecting comprises attempting to open the communication ports as a way to determine whether the communication ports are available or busy.

22. (Currently Amended) The ~~[[A]]~~ set-top-box-implemented method of claim 20, wherein the detecting comprises checking a software driver associated with an infrared transceiver to identify a communication port associated with the infrared device.

Claims 23-29 (Cancelled).

30. (New) The computer system as recited in claim 3, wherein the port detector uses an operating system message returned upon each attempt to open a communication port to determine whether the corresponding communication port exists.

31. (New) The computer system as recited in claim 30, wherein a message indicating no error or a message indicating access denied determines that the communication port exists.

32. (New) The computer system as recited in claim 3, wherein the port detector uses an operating system message returned upon

the attempt to open a communication port to determine whether the communication port is available for use or busy.

33. (New) The computer system as recited in claim 32, wherein a no error message indicates that the communication port is available for use and an access denied message indicates that the communication port is busy.

34. (New) The computer system as recited in claim 1, wherein when the port detector detects a status change of one of the communication ports associated with an infrared transceiver, the port renaming module changes the displayed status indicator associated with the communication port that has the status change.

35. (New) The computer system as recited in claim 34, wherein when the communication port becomes available for use the port renaming module changes the status indicator from busy to available for use and when the communication port becomes busy the port renaming module changes the status indicator from available for use to busy.

36. (New) The set-top-box-implemented method as recited in claim 20, wherein the detecting uses an operating system message

returned upon each attempt to open a communication port to determine whether the corresponding communication port exists.

37. (New) The set-top-box-implemented method as recited in claim 36, wherein a message indicating no error or a message indicating access denied determines that the communication port exists.

38. (New) The set-top-box-implemented method as recited in claim 21, wherein a no error message indicates that the communication port is available for use and an access denied message indicates that the communication port is busy.

39. (New) The set-top-box-implemented method as recited in claim 20, wherein when the detecting senses a status change of one of the communication ports associated with an infrared transceiver, changing the displayed status indicator associated with the communication port that has the status change.

40. (New) The set-top-box-implemented method as recited in claim 39, wherein when the communication port becomes available for use, changing the status indicator from busy to available for use and when

the communication port becomes busy, changing the status indicator from available for use to busy.

41. (New) A system, comprising:

means for determining virtual port names for communication ports of a device that has computing capability;

means for checking an operating system registry of the device to determine communication ports associated with an infrared transceiver;

means for renaming the virtual port names of the communication ports associated with an infrared receiver to different virtual port names;

means for determining a busy status or an available-for-use status of each communication port associated with an infrared transceiver;

means for displaying a list of the virtual port names including the virtual port names renamed to different virtual port names; and

means for displaying the busy status or the available-for-use status associated with each different virtual port name.

42. (New) The system as recited in claim 41, further

comprising:

means for automatically changing the busy status to an available-for-use status when a communication port associated with an infrared transceiver becomes available; and

means for automatically changing the available-for-use status to a busy status when a communication port associated with an infrared transceiver becomes busy.